|  | 10644/50101                   | 09/449,801         |
|--|-------------------------------|--------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT For M 120x1449 | APPLICANT FORREST et al.      |                    |
| APR 0 2 5  | FILING DATE November 26, 1999 | GROUP<br>2872 / 17 |

# **U. S. PATENT DOCUMENTS**

ATTY. DOCKET NO.

SERIAL NO.

| EXAMINER<br>INITIAL | PATENT<br>NUMBER | PATENT<br>DATE     | NAME             | CLASS | SUBCLASS | FILING<br>DATE |
|---------------------|------------------|--------------------|------------------|-------|----------|----------------|
| Mey                 | 5,121,183        | June 9, 1992       | Ogasawara et al. | 351   | 30       |                |
| Mey                 | 5,201,961        | April 13, 1993     | Yohsikawa et al. | 136 5 | 263      |                |
| Mey                 | 5,315,129        | May 24, 1994       | Forrest et al.   | 257   | CA       |                |
| Mky                 | 5,350,459        | September 27, 1994 | Suzuki et al.    | 13647 | P 263 6  |                |

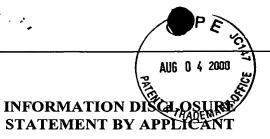
## FOREIGN PATENT DOCUMENTS

|                     |                    |      |         |       | TRANSLATIO |     | TION |
|---------------------|--------------------|------|---------|-------|------------|-----|------|
| EXAMINER<br>INITIAL | DOCUMENT<br>NUMBER | DATE | COUNTRY | CLASS | SUBCLASS   | YES | NO   |
|                     | 0)                 |      |         | ,     | . *        | ,   |      |

# OTHER DOCUMENTS

| EXAMINER<br>INITIAL | AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC. |
|---------------------|--|
|                     |  |
|                     | ·  |
|                     |  |

| Marie T.                                  | Jamaitzk             | 4  | DATE CONSIDERED              | 08/13/01           |
|---|----------------------|--|------------------------------|--------------------|
|   | 7 7 7                |  |                              | 7 7                |
| EXAMINER: Initial if citation considered  | đ, whether or not ci | tation is in conformance with M.P.E.P. 609; draw | line through citation if not | in conformance and |
| not considered. Include copy of this forn | n with next commu    | nication to applicant.                           |                              |                    |



ATTY. DOCKET NO. 10644/50101

SERIAL NO. 09/449,801

APPLICANT FORREST et al.

FILING DATE

November 26, 1999

### U. S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL | PATENT<br>NUMBER | PATENT<br>DATE    | NAME           | CLASS | SUBCLASS | FILING<br>DATE |
|---------------------|------------------|-------------------|----------------|-------|----------|----------------|
| Mey                 | 5,703,436        | December 30, 1997 | Forrest et al. | 313   | 506      |                |
| Med                 | 6,198,091        | March 6, 2001     | Forcest et al. | 250   | 214.1    |                |
| MRY                 | 6,198,092        | March 6, 2001     | Bulovic of al. | 250   | 214.1    |                |
| <del></del>         |                  |                   |                |       |          |                |

#### FOREIGN PATENT DOCUMENTS

|              |                    |      |         |       |          | TRANSLA | TION |
|--------------|--------------------|------|---------|-------|----------|---------|------|
| IINER<br>IAL | DOCUMENT<br>NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | YES     | NO   |
|              |                    |      |         |       |          |         |      |

#### OTHER DOCUMENTS

| EXAMINER<br>INITIAL | AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.  |
|---------------------|---|
| Mey                 | THOMPSON et al., U.S. Patent Application Serial No. 09/311,126, "Very High Efficiency Organic Light Emitting  Devices Based on Electrophosphorescence", filed May 13, 1999.                                   |
| Mly                 | FORREST et al., U.S. Patent Appln. Serial No. 09/136,342, "Organic Photosensitive Optoelectronic Devices With Transparent Electrodes", filed August 19, 1998.   |
| Mey                 | FORREST et al., U.S. Patent Applin. Serial No. 09/136,166, "Organic Photosensitive Optoelectronic Devices With A To   |
| Mly                 | FORREST et al., U.S. Patent Appln. Serial No.09/136,377, "Stacked Organic Photosensitive Optoelectremic Devices Wi  |
| MLY                 | FORREST et al., U.S. Patent Appln. Serial No. 09/136,165, "Stacked Organic Photosensitive Optoelectronic Devices W<br>An Electrically Parallel Configuration", filed August 19, 1998. (1.5. 14.5. 6, 198. 92. |
| Mey                 | FORREST et al., U.S. Patent Appln. Serial No. 09/136,164, "Organic Photosensitive Optoelectronic Devices With A  Mixed Electrical Configuration", filed August 19, 1998. 11.5. for No. 6, 198, 071            |
| Mly                 | PARTHASARATHY et al., U.S. Patent Application Serial No. 09/054,707, "Highly Transparent Non-metallic Cathodes filed April 3, 1998. Panding   |
| Mey                 | FORREST et al., U.S. Patent Appln. Serial No. 09/449,800, "Highly Efficient Multiple Reflection Photosensitive Optoclectronic Device With Optical Concentrator", filed November 26, 1999. — Pand in S.        |
| Mey                 | M. Granström, et al., "Laminated fabrication of polymeric photovoltaic diodes", Nature, Vol. 395, pp 257-260 (Septem 17, 1998).   |
| Mey                 | G. Yu, et al., "Polymer Photovoltaic Cells: Enhanced efficiencies via a network of internal donor-acceptor heterojunctions", Science, Vol. 270, pp. 1789-1791 (December 15, 1995).                            |
| MRY                 | U. Bach, et al., "Solid-state dye-sensitized mesoporous TiO <sub>2</sub> solar cells with high photon-to-electron conversion efficiencies, Nature, Vol. 395, pp 583-585 (October 8, 1998).                    |
| Mey                 | A. Shah, et al., "Photovoltaic Technology: The case for thin-film solar cells", Science, Vol. 285, pp 692-698 (July 30, 1999).  |
| MRY                 | C.W. Tang, "Two-layer organic photovoltaic cell", Appl. Phys. Lett., 48(2), pp 183-185 (January 13, 1986).  |

Marie R. Yannitzlay

08/13/01

Page 1 of 2

09 449,801

| EXAMINER | ALITHOR TITLE DATE DEPTMENT DACES ETC   |
|----------|---|
| Mey      | AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.  Film  C. Arbour, et al., "Surface Chemistries and Photoelectrochemistries of Thin Films Molecular Semiconductor Materials",  Mol. Cryst. Liq. Cryst., Vol. 183, 307-320 (1990). |
| Mey      | Y. Hirose, et al., "Chemistry and electronic properties of metal-organic semiconductor interfaces: Al, Ti, In, Sn, Ag, and Au on PTCDA", Phys. Rev. B, Vol. 54, No. 19, pp 13 748-13 758 (November 15, 1996).               |
| MRY      | D.F. O'Brien, et al., "Improved energy transfer in electrophosphorescent devices", <u>Applied Physics Letters</u> , Vol. 74, Number 3, pp. 442-444, (January 18, 1999).   |
| Mey      | S.E. Burns, et al., "Measurements of optical electric field intensities in microcavities using thin emissive polymer films", Adv. Mater., Vol. 9, No. 5, pp 395-397 (1997).'  (no month)                                    |
| MRY      | P.E. Burrows, et al., "Relationship Between Electroluminescence and Current Transport in organic heterojunction light-emitting devices", <u>J. Appl. Phys.</u> , Vol. 79, No. 10, pp. 7991-8006 (1996) (May 15, 1996).      |
| Mey      | S.R. Forrest, "Ultrathin Organic Films Grown by Organic Molecular Beam Deposition and Related Techniques", Chem. Rev., Vol. 97, No. 6, 1793-1896 (1997). (Sept. /oct. 1997),  |
| Mey      | J.J. M. Halls, et al., Exciton diffusion and dissociation in a poly(p-phenylenevinylene)/C <sub>60</sub> heterojunction photovoltaic cell, <u>Appl. Phys. Lett.</u> , 68(22), pp 3120-3122 (May 27, 1996).                  |
| MRY      | L. A. A.  L.L.A. Pettersson, et al., "Modeling photocurrent action spectra of photovoltaic devices based on organic thin films",  J. Appl. Phys., Vol. 86, No. 1, pp. 487-496 (July 1, 1999).                               |
| Mey      | X. Deng, et al., "Improved μc-Si p-Layer and a-Si i-Layer materials using VHF plasma deposition", 26th IEEE PVSC Conf. Record, p. 591-594, IEEE Press, NY (Sept. 30-Oct. 3, 1997).  |
| Mey      | S.R. Wenham, et al., Applied Photovoltaics, Appendix B, Bridge Printery, Sydney (1994).   |

| ·   | o n   |
|---|---|
| EXAMINER Marie R. Yamnitzlay  | DATE CONSIDERED TO CH                           |
| EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw not considered. Include copy of this form with next communication to applicant. | line through citation if not in conformance and |
|   | L ROO   |

09/449, 801 Stephen R. FORREST et al. Filing date: Nov. 26, 1999

Group Au: 1774

AUG -7 2000 TC 2800 MAIL ROOM